Claim 6 (amended):

The transformant according to claim 5, wherein said transformant is pPIC9DP-hMK/SMD1168, said MK family protein is MK protein [vector is the one according to claim 3], and said methylotrophic yeast is strain SMD1168.

Claim 7 (amended):

The transformant according to claim 5, wherein said transformant is pPIC9-hPTN/GS115, said MK family protein is PTN protein [vector is the one according to claim 4], and said methylotrophic yeast is strain GS115.

Claim 8 (amended):

A method for producing an intact MK family protein, said method comprising culturing [the transformant according to any one of claims 5 to 7] a transformant comprising methylotrophic yeast transformed with a vector for secretory expression of an intact MK family protein, said vector comprising a gene encoding a mature MK family protein ligated to a signal sequence of α1 factor derived from *Saccharomyces cerevisiae* and recovering secretory expression products.

Claim 9 (amended):

The method according to claim 8, said method comprising:

(a) culturing [the transformant according to claim 6] a transformant comprising methylotrophic yeast transformed with a vector for secretory expression of an intact MK family protein, said vector comprising a gene encoding a mature MK family protein ligated to a signal sequence of α1 factor derived from *Saccharomyces cerevisiae*, wherein said transformant is pPIC9DP-hMK/SMD1168, said MK family protein is MK protein, and said methylotrophic yeast is strain SMD1168.

(b) inducing the expression of MK protein under the conditions of 20°C and pH 3 after [the] proliferation at pH 4, and

(c) recovering secretory expression products.

Please add the following new claims:

10. The transformant, according to claim 5, wherein said vector comprises

(a) a promoter sequence of a methanol-inducible alcohol oxidase gene (AOX1) derived from *Pichia pastoris*,

(b) a signal sequence of α1 factor derived from *Saccharomyces cerevisiae*,

(c) a gene encoding a mature MK family protein, wherein said gene is ligated to (b),

(d) a transription termination sequence of a methanol-inducible alcohol oxidase gene (AOX1) derived from *Pichia pastoris*,

(e) a selection marker gene functioning in *Escherichia coli* and methylotrophic yeast,

(f) a replication origin functioning in *Escherichia coli*, and

(g) 5' AOX1 and 3' AOX1 for the site-specific homologous recombination to a methylotrophic yeast chromosomal DNA.

11. The transformant, according to claim 5, wherein said MK family protein is MK protein.

12. The transformant, according to claim 5, wherein said MK family protein is PTN protein.

13. The method, according to claim 8, wherein said transformant is pPIC9DP-hMK/SMD1168, said MK family protein is MK protein, and said methylotrophic yeast is strain SMD1168.

14. The method, according to claim 8, wherein said transformant is pPIC9-hPTN/GS115, said MK family protein is PTN protein, and said methylotrophic yeast is strain GS115.

The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Respectfully submitted,

David Saliwanchik

David R. Saliwanchik
Patent Attorney
Registration No. 31,794
Phone No.: 352-375-8100
Address : 2421 N.W. 41st Street
Suite A-1
Gainesville, FL 32606

DRS/la